FIG. 1

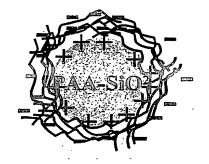
Flow Chart for Biomimetic Assembly on Nanoparticles



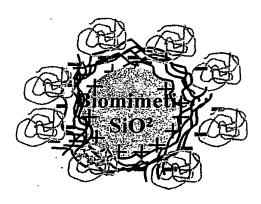
Silica colloid (or polymer colloid)



+ Covalently bonded surface charge



Negatively charged polymeric species (e.g., PAA)





Positively charged biopolymer (e.g., collagen)

FIG. 2

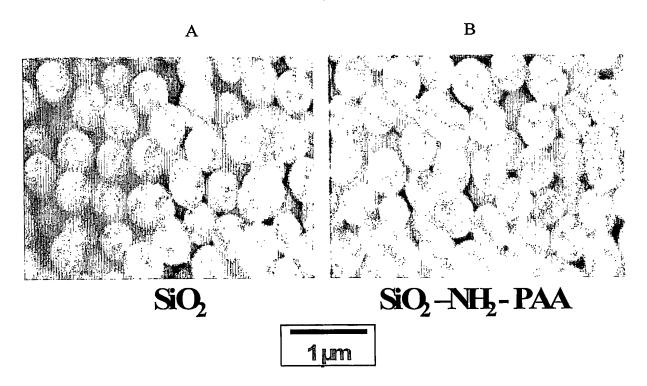
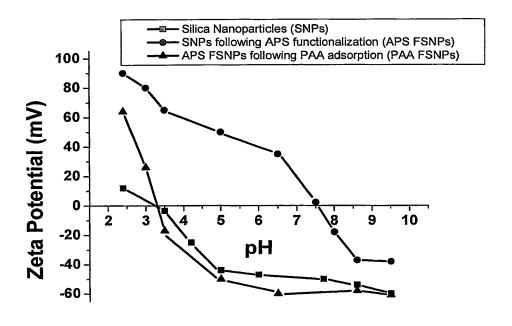


FIG. 3



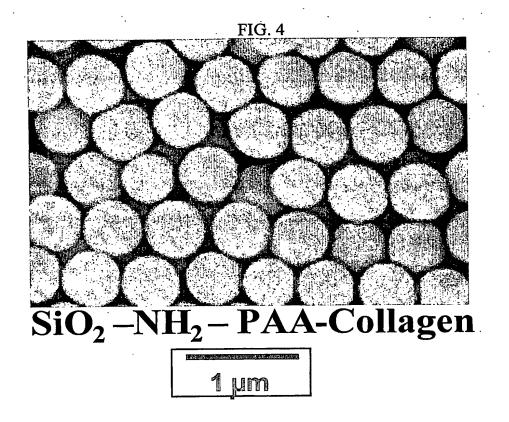


FIG. 5

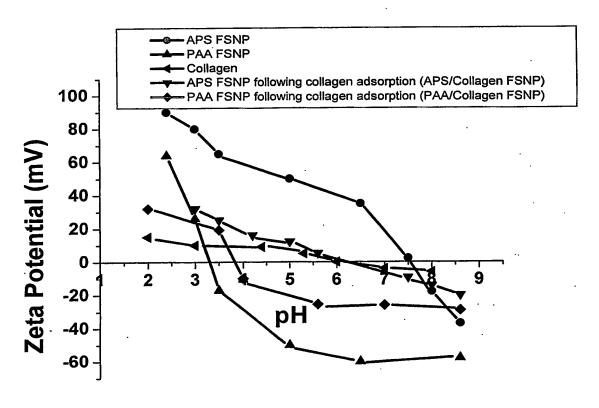
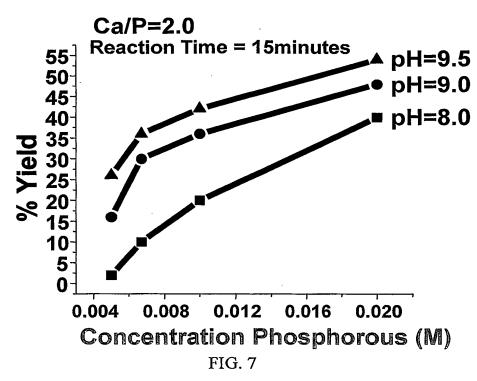
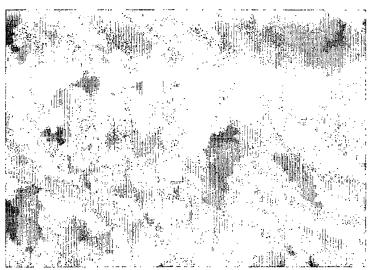


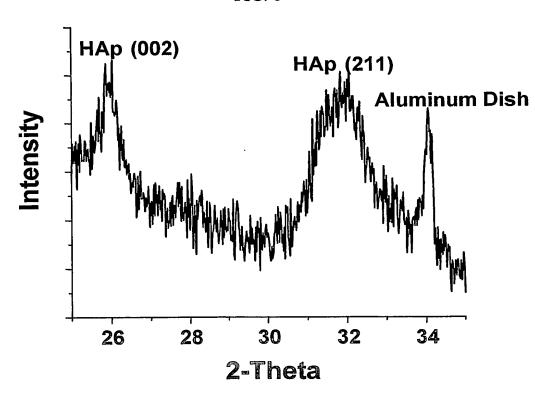
FIG. 6





1μm





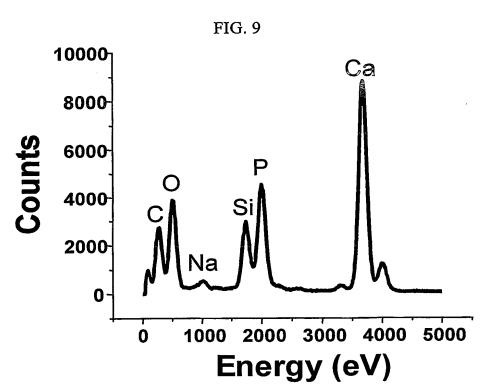


FIG. 10

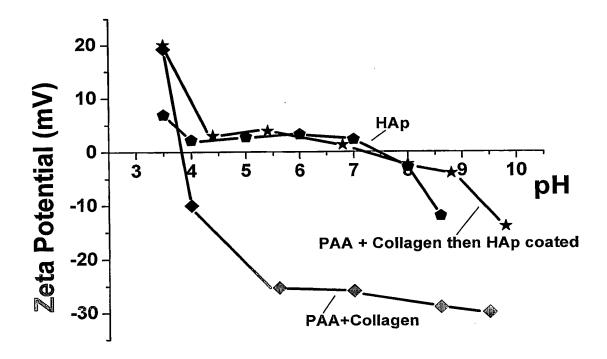


FIG. 11

